

CLAIM AMENDMENTS

Claim Amendment Summary

Claims pending

- Before this Amendment: Claims 1-37.
- After this Amendment: Claims 1-12 and 20-37

Non-Elected, Canceled, or Withdrawn claims: 13-19

Amended claims: 1, 12, 20, 26

New claims: None

Claims:

1. (Currently Amended) A computer-implemented method for processing data, the method comprising:

in an operating environment supporting a pipeline of a plurality of object-based commands, a subsequent command within the pipeline being configured to communicate with a prior command within the pipeline through a parseable object emitted from the prior command, the operating environment configured to support the execution of the commands within the same process,

receiving the parseable object emitted from the prior command;

obtaining a data type for the parseable object;

obtaining format information describing a format for the data type; and

emitting a format object for access by another subsequent command, the format object being based on the format information;

wherein the format object is emitted to a computer readable storage medium.

2. (Original) The computer-implemented method of claim 1, wherein obtaining format information comprises accessing an XML-based document.

3. (Original) The computer-implemented method of claim 1, wherein the subsequent command comprises an output command configured to render results of the pipeline based on the received parseable object and the format object.

4. (Original) The computer-implemented method of claim 3, wherein the rendering of the results comprises displaying on a console.

5. (Original) The computer-implemented method of claim 3, wherein the rendering of the results comprises importing the results into an application.

6. (Original) The computer-implemented method of claim 3, wherein the rendering of the results comprises displaying in a graphical user interface.

7. (Original) The computer-implemented method of claim 1, wherein the other subsequent command comprises a markup command configured to add property annotation to selected parameters within the parseable object and emitting these property annotations for input by further subsequent commands in the pipeline.

8. (Original) The computer-implemented method of claim 1, wherein the other subsequent command comprises a convert command configured to convert the received parseable object into a specific format.

9. (Original) The computer-implemented method of claim 8, wherein the specific format comprises an XML document, an Active Directory Object, or a comma separated value format.

10. (Original) The computer-implemented method of claim 8, wherein another subsequent command comprises a transform command that receives the specific format from the convert command and transforms the specific format into another specific format based on a style sheet.

11. (Original) The computer-implemented method of claim 1, wherein the format information describes the data type and at least one of a shape, a property, or a header.

12. (Currently Amended) A computer readable storage medium ~~readable medium~~ having computer-executable instructions for providing pre-output processing and data based upon input from a prior command's output ~~data driven output~~, the instructions comprising:

receiving by reference, a parseable pipeline object (PPO), from a computer readable storage medium, the PPO having been emitted from a prior command within an administrative tool framework operating environment that supports a pipeline of a plurality of object-based commands and, the administrative tool framework that is configured to support the execution of the commands within the same process, the prior command being one of the plurality of commands entered together as a parseable stream and separated into separate commands,

obtaining a data type for the PPO parseable object using object reflection;
~~obtaining format information describing a format for the data type; and~~

obtaining format information describing a format for the data type of the PPO, wherein the format information describes at least one of a plurality of formats, the plurality of formats comprising:

a shape;

a property; and

a header;and

wherein the format information is obtainable by accessing one of a plurality of data sources, wherein the data source is one selected from the group consisting of: an XML document, an Active Directory Object, and a delimiter separated values file; and

emitting to a computer readable storage medium an a output format object (OFO) for access by a subsequent command from the plurality of object-based commands-plurality of commands, wherein the OFO is format-object being based upon on the obtained format information, and parameters of the command; and

terminating the pipeline is an output command that accepts as input the PPO and the OFO and delivers the result of the pipeline of object-based commands:

wherein results are delivered to an output method that has been provided by the administrative tool framework to support the methods of output supported by the computer; and

wherein the format of result depends upon whether the output command command is preceded by any number of format modifying commands such that:

in an event that a format modifying command includes a markup command, the format modifying command will add property annotation to selected parameters within the PPO for input by further subsequent commands in the pipeline; and

in an event that a format modifying command includes a convert command, the format modifying command will be configured to convert the PPO into a specific file format; and

in an event that a format modifying command includes a transform command, the format modifying command will be configured to receive instruction from a format modifying command including a convert command and transform the PPO from the specific file format into another specific format based upon a style sheet.

- 13. (Canceled)**
- 14. (Canceled)**
- 15. (Canceled)**
- 16. (Canceled)**
- 17. (Canceled)**
- 18. (Canceled)**
- 19. (Canceled)**

20. (Currently Amended) A system that supports data driven output, the system comprising:

a processor;

a memory, the memory being allocated for a plurality of computer-executable instructions which are loaded into the memory for execution by the processor, the computer-executable instructions performing a method comprising:

receiving a parseable object emitted from a prior command within an operating environment that supports a pipeline of a plurality of object-based commands and that is configured to support the execution of the commands within the same process, the prior command being one of the plurality of commands,

obtaining a data type for the parseable object;

obtaining format information describing a format for the data type; and

emitting a format object for access by a subsequent command from the plurality of commands, the format object being based on the format information;

wherein the format object is emitted to a computer readable storage medium.

21. (Original) The system of claim 20, wherein obtaining format information comprises accessing an XML-based document.

22. (Original) The system of claim 20, wherein the format information describes the data type and at least one of a shape, a property, or a header.

23. (Original) The system of claim 20, wherein the other subsequent command comprises a markup command configured to add property annotation to selected parameters within the parseable object and emitting these property annotations for input by further subsequent commands in the pipeline.

24. (Original) The system of claim 20, wherein the other subsequent command comprises a convert command configured to convert the received parseable stream into a specific format.

25. (Original) The system of claim 20, wherein another subsequent command comprises a transform command that receives the specific format from the convert command and transforms the specific format into another specific format based on a style sheet.

26. (Currently Amended) A method for providing a data driven command line output, the method comprising:

receiving a command-line instruction containing a plurality of commands including an output command configured to receive at least one object; and

executing the output command to manipulate the at least one object and to output a result to an output destination.

27. (Original) The method of claim 26, wherein the command line instruction is received and the output command is executed in an object-based command-line environment.

28. (Original) The method of claim 27, wherein the output command is provided by the command-line environment.

29. (Original) The method of claim 26, wherein outputting the result comprises displaying the results on a console.

30. (Original) The method of claim 26, wherein outputting the result comprises importing the results into an application.

31. (Original) The method of claim 26, wherein outputting the result comprises displaying the results in a graphical user interface.

32. (Original) The method of claim 26, further comprising another command configured to provide the at least one object to the output command.

33. (Original) The method of claim 32, wherein the other command comprises a format command configured to emit display information associated with the at least one object.

34. (Original) The method of claim 33, wherein the output command ignores the display information when outputting the result.

35. (Original) The method of claim 34, wherein the other command comprises a markup command configured to add a property annotation to a parameter within the at least one object.

36. (Original) The method of claim 32, wherein the other command comprises a convert command configured to convert the at least one object into a specific format.

37. (Original) The method of claim 36, wherein the specific format comprises an XML document, an Active Directory Object, or a comma separated value format.